EXHIBIT A



QUICKSILVER TECHNOLOGY INVENTION DISCLOSURE

TITLE OF INVENTION (short	title and description)	Date Submitted:	-
Title: [Predictive Resource Allo	cation]——Label M	- Marie - American	
Description:	Label E	/	abel A
those detached processors will of the programs lexecuting on t	I need to execute or resources they will nee hose processors. [Hence the control progra ey are actually needed.] [The description is	ore, detached processord is given a description of ed to assign (e.g., memory) ahead of the actual e am can take action on preparing those programs furnished in terms of a script of the items and thi	xecution La
NVENTOR INFORMATION		Label B	
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QUICKSILVER TECHNOLOGY

INVENTION DISCLOSURE

Label D

SOLUTION

The proposed solution is to [provide the controlling program (or central Operating System dispatcher/scheduler)] is description of the execution sequence of the program which also includes a list of resources, when they are required and when they can be released.] Hence the controlling program is aware of the application for we application. Thus the controlling program is able to assign the resources ahead of need and release them for other use when no longer required. [The fist, or description, of resource requirements is provided to the controlling program at the start of resourcion. This is is referred to as a "script" (i.e., the accepted term for a task description interpreted by a program at execution of that program.]

Example:

bel J

. Label N

An application running in a multiprocessor environment executes function X on processor Q and function Y or processor R, then Z on Q, However, Z cannot execute until Y is complete. Function X requires a 100 Khyte buffer, Z requires a 200 Khyte buffer. X can surrender its 100 Khyte buffer, but only when Y is done (allowing the control program to reuse the space for Z's 200 Khyte buffer). The script might appear as follows –

PROCESS X EXECUTES ON Q; [NEEDS: BUFFER 100K REF BB] Label K

PROCESS Y EXECUTES ON P

PROCESS Z EXECUTES ON Q WAIT FOR Y; NEEDS: BUFFER 200K; FREE BB

Label G -

[Hence the controlling processor has a nead map of exactly what will happen in the program prior to actual execution and can decide how to optimize memory allocation far in advance of need. (The actual execution of the application program will cause the request for execution of X, Y and Z as well as their requests for their buffers.][The important feature of this invention is that the controlling processor knows the execution sequence and requirements well ahead of time and can therefore optimize the assume allocation.] Thus resource assignment is practicitive (laked of time) after than exactive, of time of need.]

Label P



QUICKSILVER TECHNOLOGY INVENTION DISCLOSURE

CRITICAL DATES INFORMATION					
Date invention workable:	Immediate				-
Used or Planned for product		Yes	х□	No	
Product name:					_
Release date:					_
Announce date:					-
Public Demonstration		Yes	х	No	
Demo date:					_
Location:					_
Disclosed outside of QST		Yes	х□	No	
Disclosure date:	***				
Location:					_
Used in Manufacturing		Yes	х□	No	
Manufacture date:					_
Location:					-
Product:					_
Other (Please specify)					



QUICKSILVER TECHNOLOGY

DESCRIPTION OF INVENTION:

Describe the reason for the invention (Problem) and describe the invention and how it resolves the problem (Solution). Attach a DIAGRAM of the invention.

PROBLEM

Problem addressed is:

- a. How to assign memory and other processor resources in advance of their actual use?
- b. How to coordinate the assignment of the memory or other resources with the program execution such that assignment and need are synchronized (i.e., assignment takes place ahead of need in a dynamically changing assignment application)?

Example -

A processor X needs a memory buffer of 100,000 bytes before executing program segment, or function, Q. The memory buffer is only needed at that time and not before nor after. Assigning the 100,000 bytes prior to execution is wasteful because it is only needed for Q; this would be up the 100,000 bytes for the entire execution of the program.



QUICKSILVER TECHNOLOGY INVENTION DISCLOSURE

EVALUATION QUESTIONS
If this problem has been solved before, how was it solved? Not aware that the problem has been solved in a dynamic environment, especially not in a multiprocessor context.
Why is your solution better? It enables resources (e.g., memory, coprocessors) to be assigned ahead of need and the assignment to be coordinated with the needs of other program functions.
Who outside of QST (competitors) would want to use your solution? Any competitor designing a multiprocessor system for maximum performance.
How would QST discover that competitors were using your solution? Reseach.
Please list and provide any and all documentation or Prior Art related to this invention: Have not researched Prior Art.

NEW MATTER FORM (NON-LITIGATIV

INSTRUCTIONS: This form will open a new matter record in all TTC Databases and will generate a corresponding file folder. Please attach a New Client Form (Non-Litigation), if the client does not currently exist. Please attach a New Matter Form (Non-Litigation), for each additional matter required. The completed form(s) should be sent to the Record Department, atth: Client Information, Please also attach a Conflicts Memo, all responses, and an indication of how any conflict concerns were resolved.

attn: Client Information. Please also attach a Conflicts Memo, all responses, and an indication of how any conflict concerns were resolved.					
CLIENT INFORMATION					
Client No: 021202 (if a current client)	Client Name	e: Quic	cksilver Technology		
	New M	ATTER I	NFORMATION		
New Matter No. Please complete the new matter number below only if you are requesting a steed of sub-matter for an existing matter					
Matter Name: Predictive Resource Allocation	4				
Short Matter Name: (30 char - used for	DTE)				
Predictive Resource Allocation					
Client's Reference No: QST-026US				□ PA □ SE □ DÉ □ WC	
Law Type: (see complete list below)	021		Target Filing Date	: ??	
Conflict Check Required for the following					
028 Patent Investigation/Validity/Infring	ement Studies	040		ation/Validity/Infringement Studies	
037 Contracts		041		tion/Validity/Infringement Studies	
038 Licensing Conflict Check required for the following	Law Tunos if A	042	Arbitration/E.N.E/E>	opert witness	
025 U.S. Patent, Re-Issue	Law Types II A	039	Opinions and Advice	Α	
026 U.S. Patent, Re-Examination*		-		×	
ATTORNEY INFORMATION					
Responsible Atty Code: Responsible Atty Name: Charles Kulas					
Working Atty 1 Code: 0397	Working Atty 1 Name: Fidel Nwamu				
Working Atty 2 Code:	Working Atty 2 Code: Working Atty 2 Name:				
Surch	RGE INFORMA	ATION (E	LECTRICAL MATTE	RS ONLY)	
For: (check one)		Surcha	Surcharge Percentage of Hourly Billing:		
☐ Rush Application					
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		□ 2	25% for prospectus opinion (plus \$5,000 fixed fee).		
Surcharge applies to billings through / (Month/Year)					
MATTER BILLING INFORMATION					
Matter Billing Address: (if different from client billing address) Notes:					
Attn:					
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RECORDS INFORMATION					
Indicate type of Folder required if different from standard \(\) Three-Fold Patent \(\Boxed{Two-Fold Foreign Patent} \) Holding File \(\Boxed{Brown Multi-divided} \) Two-fold Manila \(\Boxed{Two-Fold Green} \) Flip-top Pleading					
Prepared By: Preparer's Extension: Date:					
Prepared By: Alison Bowden	4099	uension:		Date:	
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NEW MATTER FORM (NON-LITIGAT:)

INVENTOR INFORMATION (use additional pages if more than four Inventors and attach to primary form)

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	Courterth	IFORMATION .	
	(a conflicts check should be obtained before ac	ditions or changes are made to related parties)	
Related Parties	- For:	Related Parties - Against:	
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Practice group	head approval is required when a conflict che	ck indicates any potential conflicts. If the billing attorney is	
	e group head, then an alternate practice grou		
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Prepared By:	Preparer's Extension:	Date:
Alison Bowden	4099	
SF 1249976 v1	Page 2	Version Date